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(54) **FOLDABLE CHAIR**

(75) Inventor: **Ngai Mui Candy Kwok**, Hong Kong (HK)

(73) Assignees: **SHENZHEN ZHISHAN DINING MANAGEMENT LIMITED**, Shenzhen (CN); **Ngai Mui Candy Kwok**, Hong Kong (HK)

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A47C 7/50	(2006.01)

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CPC ... ***A47C 4/04*** (2013.01); ***A47C 4/18*** (2013.01); ***A47C 7/407*** (2013.01); ***A47C 7/50*** (2013.01)

(58) **Field of Classification Search**

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USPC 297/52, 53, 56
See application file for complete search history.

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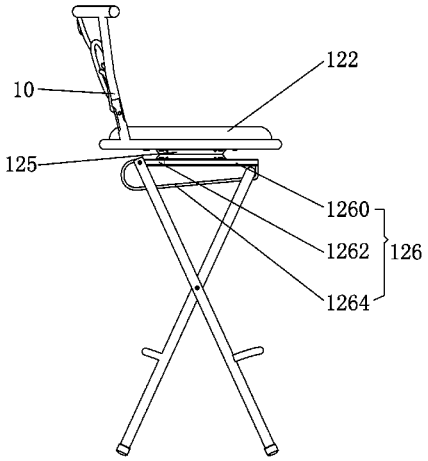
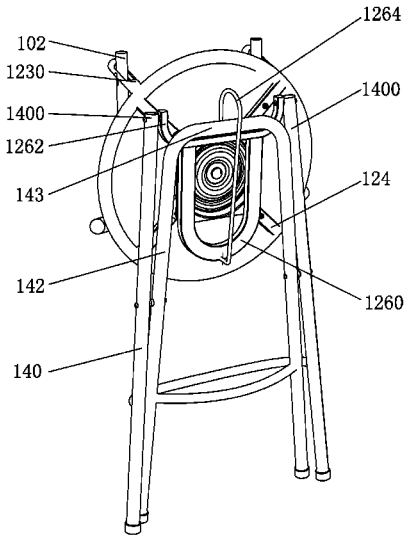
Primary Examiner — Peter Brown

(57) **ABSTRACT**

The present invention provides a foldable chair includes a main body including a backrest, a seat, and legs; the backrest and the legs are connected to the seat; the seat includes a seating pad ring and a seating pad; the seating pad is placed on the seating pad ring; two folding parts extending upwards are formed on two sides of the seating pad ring; the folding part is provided with a receiving groove; two supports of the backrest are fixed to the folding parts; one end of the support is inserted into the receiving groove and detaches from the receiving groove when the support is moved; the folding part is provided with an opening, where the opening supports the support when the backrest is folded onto the seating pad. The foldable chair requires no bolt for use and packing, and does not occupy large storage.

1 Claim, 5 Drawing Sheets





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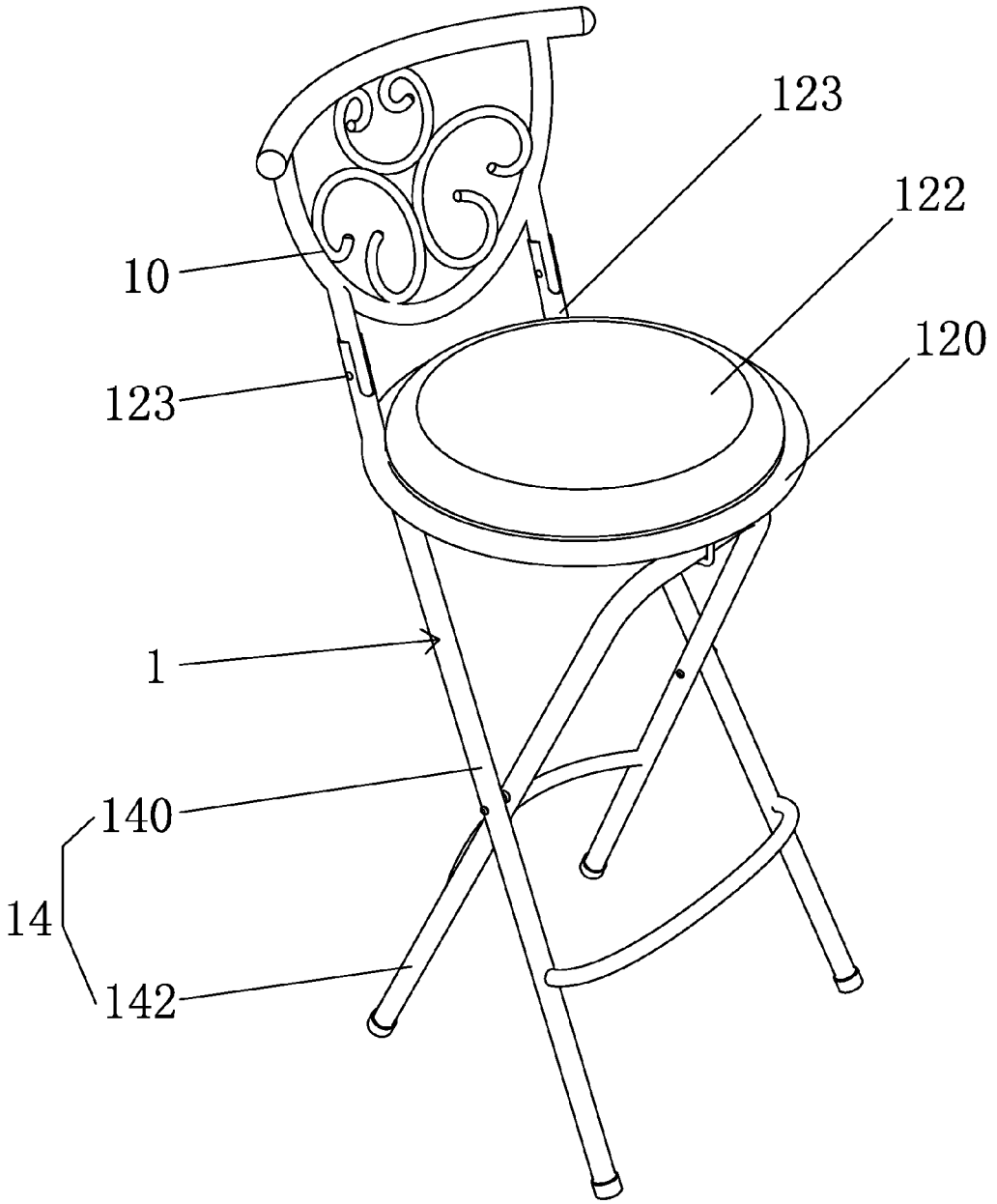

FIG. 1

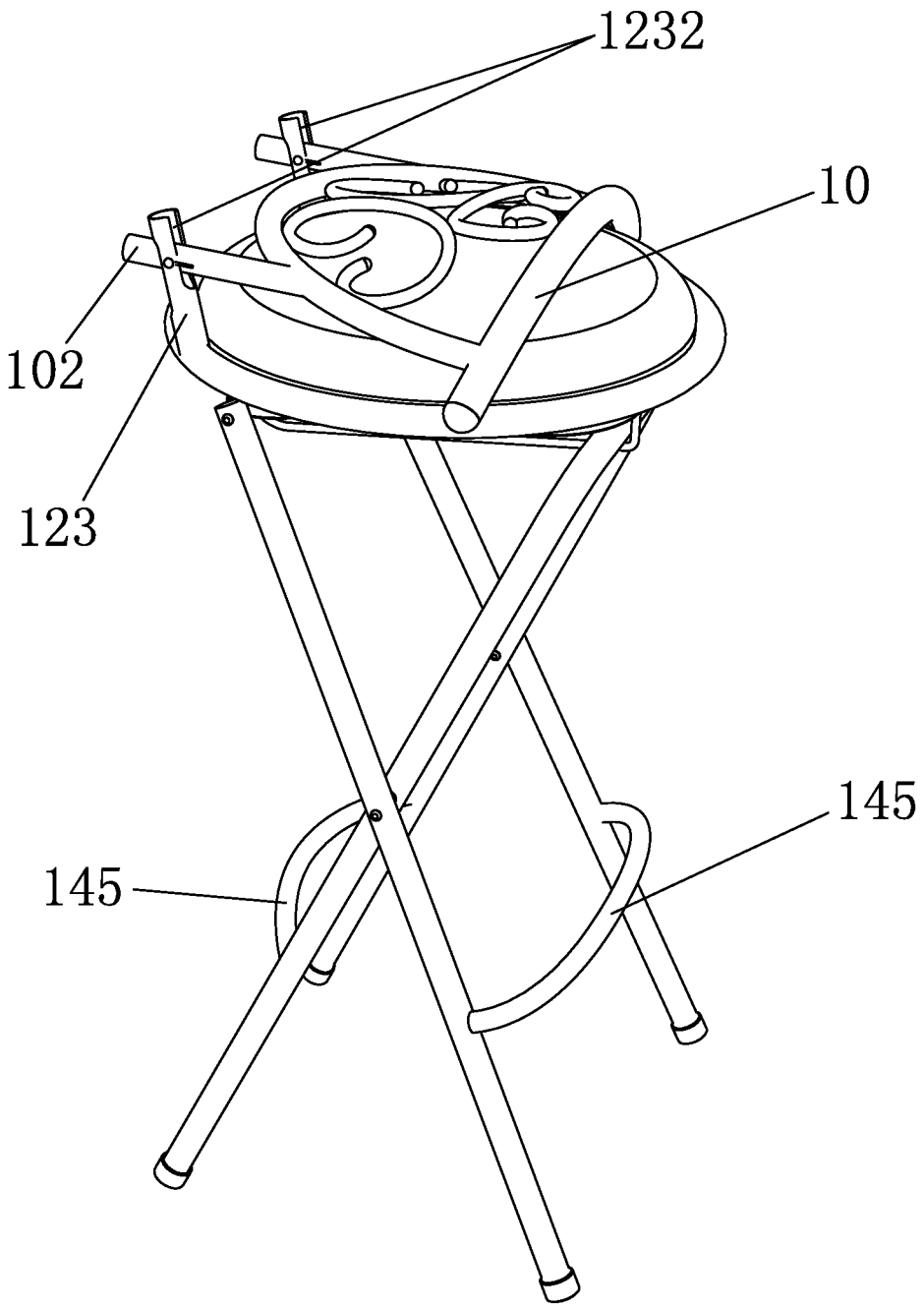

FIG. 2

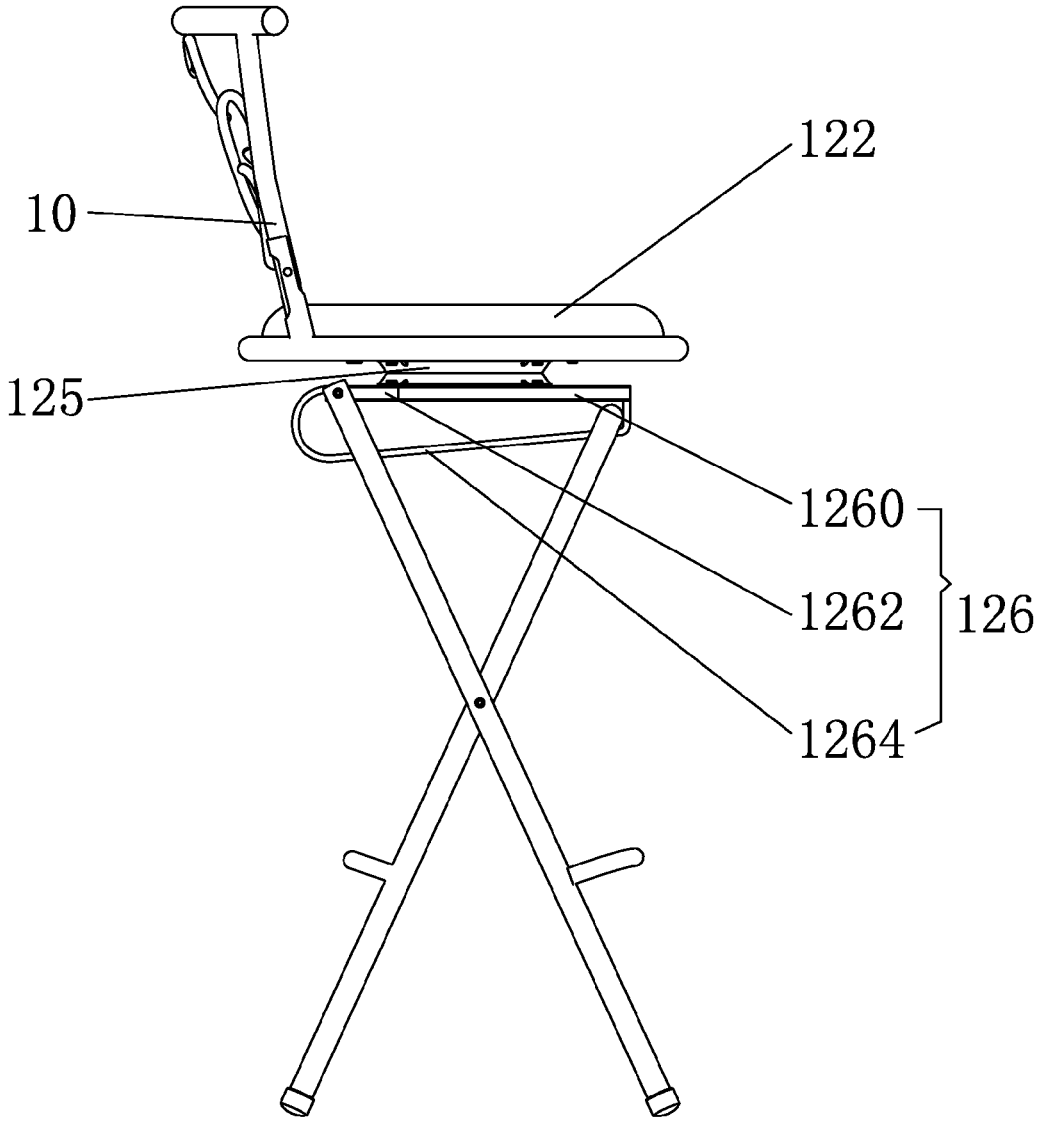

FIG. 3

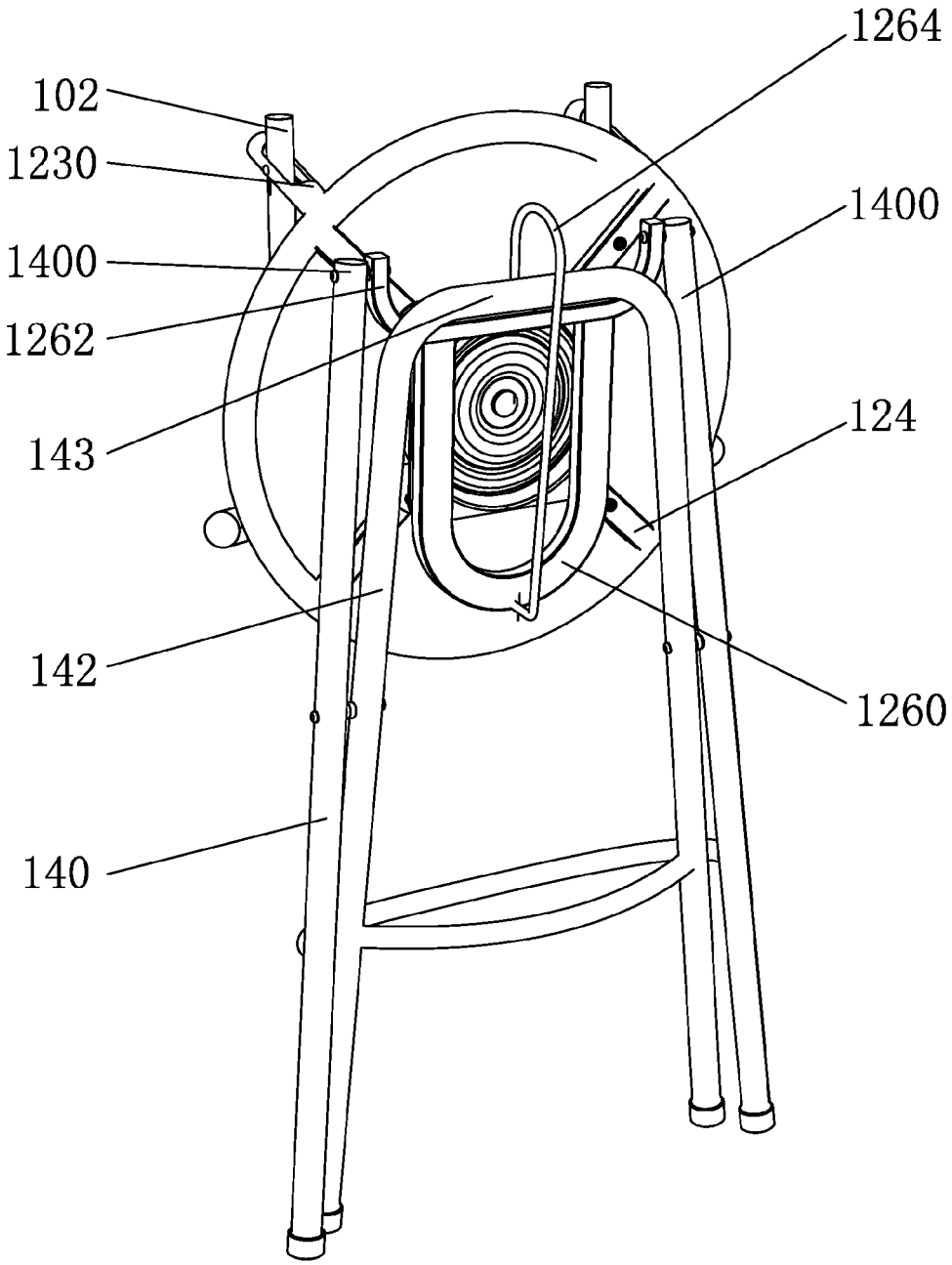

FIG. 4

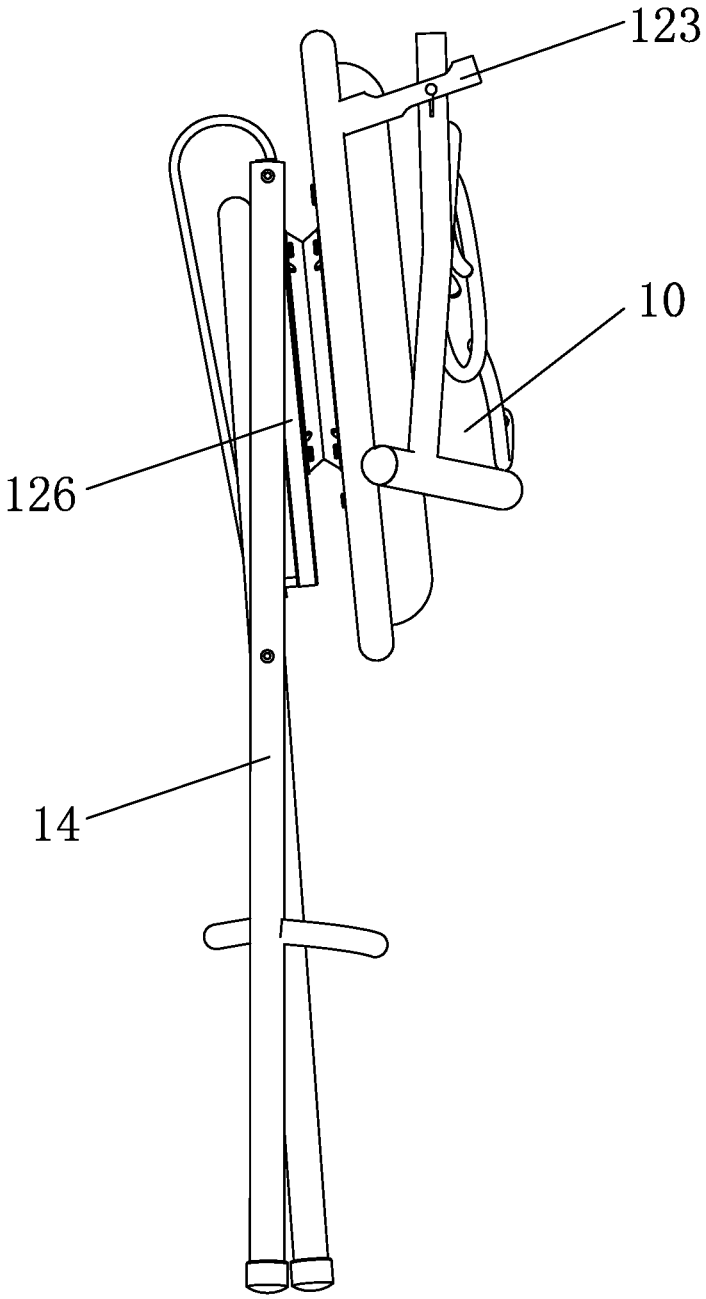

FIG.5

FOLDABLE CHAIR

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a chair, and in particular, to a foldable chair.

2. Background

A chair is one of traditional seating devices for people and is widely used in offices, meeting rooms, libraries, hotels, and homes, which provides a comfortable seat for people during work, meeting, study, and leisure time. A manufacturer producing chairs, after making chairs into finished products, delivers them to distributors or users through transportation, loading, and unloading. In the prior art, during storage, transportation, and loading and unloading of chairs, a backrest of the chair occupies large storage, transportation, and loading and unloading space in spite of a structure in a shape of a flat plate, which results in increased storage, transportation, and loading and unloading costs to the disadvantage of competitiveness of the product on the market. In metropolises where housing prices keep rising, limited living space forces people to make the best of the space as much as possible or to design objects to occupy activity space as little as possible. Therefore, foldable furniture such as a chair, which is space-efficient and practical, is required.

SUMMARY OF THE INVENTION

The technical problem to be solved by the present invention is to provide a foldable chair which is convenient for assembling, space-efficient, and practical.

To solve the technical problem, the technical solution of the present invention is to provide a foldable chair, where a main body thereof includes a backrest, a seat, and legs; the backrest and the legs are connected to the seat; the seat includes a seating pad ring and a seating pad; the seating pad is placed on the seating pad ring; two folding parts extending upwards are formed on two sides of the seating pad ring; the folding part is provided with a receiving groove; two supports of the backrest are fixed to the folding parts; one end of the support is inserted into the receiving groove and detaches from the receiving groove when the support is moved; the folding part is provided with an opening, where the opening supports the support when the backrest is folded onto the seating pad.

Compared with the prior art, this foldable chair requires no bolt for use and packing, and does not occupy large storage, transportation, and loading and unloading space during storage, transportation, and loading and unloading of chairs, which reduces costs to improve the competitiveness of the product on the market, and is space-efficient and practical for use.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** is a schematic perspective view of a foldable chair according to the present invention;

FIG. **2** is a schematic perspective view of a foldable chair according to the present invention after a backrest is folded;

FIG. **3** is a schematic exploded perspective side view of a foldable chair according to the present invention;

FIG. **4** is a schematic perspective view of a foldable chair according to the present invention after a backrest and legs are folded; and

FIG. **5** is a schematic perspective side view of a foldable chair according to the present invention after a backrest and legs are folded.

DETAILED DESCRIPTION OF THE INVENTION

The present invention is further described as follows with reference to the accompanying drawings.

Referring to FIG. **1** to FIG. **5**, a main body **1** of a foldable chair according to the present invention includes a backrest **10**, a seat **12**, and legs **14**, where the backrest **10** and the legs **14** are connected to the seat **12**. The seat **12** includes a seating pad ring **120** and a seating pad **122**, where the seating pad **122** is placed on the seating pad ring **120**.

Two folding parts **123** extending upwards are formed on two sides of the seating pad ring **120**. The folding part **123** is provided with a receiving groove **1230**. The backrest **10** comprises two supports **102**. Ends of two supports **102** of the backrest **10** are inserted into the receiving grooves **1230** of the folding parts **123**, and are fixed to the folding parts **123** by using rivets. The support **102** is provided with an engaging slot (not shown in the figures) for receiving the rivet. By pulling the supports **102** upwards, the rivets move within the engaging slots of the supports **102**, so that the ends of the supports **102** detach from within the receiving grooves **1230** as the support **102** is moved. The folding part **123** is provided an opening **1232** on a front side, where the opening **1232** supports the support **102** when the backrest **10** is folded onto the seating pad **122**. When the support **102** is pressed, the support **102** is inserted into the opening **1232**, one end of the support **102** detaches from the interior of the receiving groove **1230**, and the opening **1232** supports the support **102**.

The seating pad ring **120** is provided with a supporting rack **124**, where the supporting rack **124** is in a shape of a cross. The supporting rack **124** is provided with a rotating disk **125**, and the seating pad ring **120** may rotate on the rotating disk **125**, thereby causing the main body **1** of the chair to rotate.

The rotating disk **125** is provided with a rotating-disk folding seat **126**, where the rotating-disk folding seat **126** includes a U-shaped main body **1260**, a connecting rack **1262**, and a sliding bar **1264**. The main body **1260** is installed on the rotating disk **125**; the connecting rack **1262** is connected to one end of the main body **1260**; and an end of the sliding bar **1264** is connected to the main body **1260**, and the other end is connected to the connecting rack **1262**. Two ends of the connecting rack **1262** are respectively connected to the supporting rack **124** by using rivets.

The legs **14** include two rear legs **140** and two front legs **142**, where end portions **1400** of the two rear legs **140** are respectively connected to end portions of the connecting rack **1262** by using rivets and may rotate about the rivets. The two front legs **142** are connected at two ends to form a supporting bar **143**, where the supporting bar **143** is placed on the sliding bar **1264** and may move on the sliding bar **1264**, thereby causing the front legs **142** to move. A footrest **145** is provided between the two rear legs **140** and between the two front legs **142**, where the footrests **145** are close to the ground for users to place their feet on for a rest.

When folding the backrest **10**, the support **102** is pressed so that the backrest **10** rotates toward the seating pad **122**, the support **102** is inserted into the opening **1232**, and one end of the support **102** detaches from the interior of the receiving groove **1230**; when the backrest **10** is completely placed on the seating pad **122**, the opening **1232** supports the support **102**, thereby implementing folding.

When folding the legs **14**, the front legs **142** are pushed so that the supporting bar **143** moves on the sliding bar **1264** until the front legs **142** press against the rear legs **140**, and the rear legs **140** are rotated so that the rear legs **140** and the front legs **142** press against the seating pad ring **120**, thereby implementing folding.

The foldable chair requires no bolt for use and packing, and does not occupy large storage, transportation, and loading and unloading space during storage, transportation, and loading and unloading of chairs, which reduces costs to improve the competitiveness of the product on the market. It is space-efficient and practical for use.

The preferred embodiment is described above to enable those skilled in the art to manufacture and use the present invention. Those skilled in the art may derive various modifications to the embodiment according to the general principle provided herein without creative efforts. Therefore, the present invention is not limited to the embodiment illustrated herein, and shall be consistent with the maximum protection scope of the claims.

What is claimed is:

1. A foldable chair, comprising a main body (**1**) which comprises a backrest (**10**), a seat (**12**), and legs (**14**) comprising two rear legs (**140**) and two front legs (**142**); the seat (**12**) comprises a seating pad ring (**120**) and a seating pad (**122**) secured to the seating pad ring (**120**); further comprising:

two folding parts (**123**) extending upwards formed on two sides of the seating pad ring (**120**);

the folding part (**123**) comprising a receiving groove (**1230**); and

the backrest (**10**) comprising two supports (**102**);

wherein two supports (**102**) of the backrest (**10**) is fixed to the folding parts (**123**); one end of the support (**102**) is inserted into the receiving groove (**1230**) and detaches from the receiving groove (**1230**) when the support (**102**) is moved; the folding part (**123**) is provided with an opening (**1232**) which supports the support (**102**) when the backrest (**10**) is folded onto the seating pad (**122**);

wherein the seating pad ring (**120**) is provided with a supporting rack (**124**), and the supporting rack (**124**) is provided with a rotating disk (**125**) for the seating pad ring (**120**) to rotate thereon;

wherein the rotating disk (**125**) is provided with a rotating-disk folding seat (**126**) comprising a main body (**1260**), a connecting rack (**1262**), and a sliding bar (**1264**); the main body (**1260**) is installed on the rotating disk (**125**); the connecting rack (**1262**) is connected to one end of the main body (**1260**);

one end of the sliding bar (**1264**) is connected to the main body (**1260**), and the other end is connected to the connecting rack (**1262**);

wherein end portions of the connecting rack (**1262**) are pivotally secured to end portions (**1400**) of the two rear legs (**140**);

wherein the two front legs (**142**) are connected at two ends to form a supporting bar (**143**), and the supporting bar (**143**) is placed on the sliding bar (**1264**) and moves on the sliding bar (**1264**); and

wherein a footrest (**145**) is provided between the two rear legs (**140**) and between the two front legs (**142**), and the footrest (**145**) is close to the ground.

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